

## Wochnick, Heather M CIV NAVFAC HQ, BRAC PMO

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**From:** Smits, Marc P CIV NAVFAC HQ, BRAC PMO  
**Sent:** Thursday, September 22, 2016 18:02  
**To:** Callian, James T CIV NAVFAC HQ, BRAC PMO; Arnold, Content P CIV; Chammas, Guy A CIV  
**Subject:** FW: SGU El Toro MCAS - Monitoring Data EPA Method 537 - PFAAs  
**Attachments:** image001.jpg; image002.png; image003.png; image004.png; ocwdlogo9e2601.png; gwrsystems96e315.png; twitterd47c05.png; UCMR3\_IRWD\_OCWDSampledSites.xlsx; WRMSnames-IRWD-SampleStations-UCMR3.xlsx  
**Signed By:** marc.smits@navy.mil

Jim, Content, and Guy,

Here is additional information from Nira at OCWD regarding locations of sampling points for the UCMR3 data in the Irvine/Orange County Area.

Thanks,

Marc

-----Original Message-----

From: Yamachika, Nira [mailto:NYamachika@ocwd.com]  
Sent: Tuesday, September 20, 2016 2:04 PM  
To: Smits, Marc P CIV NAVFAC HQ, BRAC PMO  
Cc: Herndon, Roy; 'Lars Oldewage'  
Subject: [Non-DoD Source] RE: SGU El Toro MCAS - Monitoring Data EPA Method 537 - PFAAs

Hi Marc,

Attached are two additional excel files that provide greater detail and explanation of the 9 UCMR3 locations that OCWD sampled for IRWD. The locations sampled by IRWD were outside the OCWD boundary and includes several south Orange County locations as shown on the IRWD system map.

If you have any questions on the UCMR3 sample sites, please let us know. This should help you in assessing the UCMR3 data and where samples were collected.

Thank you...Nira

Nira Yamachika  
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>

From: Lars Oldewage [mailto:OLDEWAGE@irwd.com]  
Sent: Tuesday, September 20, 2016 12:44 PM  
To: marc.smits@navy.mil; Yamachika, Nira  
Cc: Herndon, Roy  
Subject: RE: SGU El Toro MCAS - Monitoring Data EPA Method 537 - PFAAs

Nira,

I went ahead and made the change and included Marc on this reply. I also attached the map for (b) (9).

Thanks,

LARS D. OLDEWAGE, MBA

WATER QUALITY DEPARTMENT MANAGER

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>>> "Yamachika, Nira" <NYamachika@ocwd.com> 9/20/2016 12:37 PM >>>

Lars,

The map is good as it shows both OCWD and IRWD UCMR3 sample sites (except MWD's (b) (9)). One correction, the (b) (9) is actually the same as (b) (9) through extensive discussions with Cindy and her team to select a location for the OPA area until the new well was drilled. I had to use a different UCMR3 name to keep the data and monitoring periods separated. I will remove the (b) (9) location from your map and send to Marc. I will include the maps and files I sent to you and Roy to Marc as well.

This should take care of Marc's data needs.

All agree?

Thanks...Nira

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From: Lars Oldewage [mailto:OLDEWAGE@irwd.com]  
Sent: Tuesday, September 20, 2016 12:21 PM  
To: Yamachika, Nira; Herndon, Roy  
Subject: RE: SGU El Toro MCAS - Monitoring Data EPA Method 537 - PFAAs

Nira,

I highlighted (or added) the UCMR3 sample points on this 2013 version of our sample site map (except the (b) (9) sample point) . It includes both IRWD's and OCWD's UCMR3 sample points. Please review for the sites that were sampled by OCWD.

Thanks,

LARS D. OLDEWAGE, MBA

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>>> "Yamachika, Nira" <NYamachika@ocwd.com> 9/20/2016 9:33 AM >>>

Great...just simple map locations for Marc to meet his data needs for sites sampled for PFCs for the UCMR3 program.

Lars...are you okay for me to send to Marc?

Nira

Nira Yamachika  
Director of Water Quality

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-----Original Message-----

From: Herndon, Roy  
Sent: Tuesday, September 20, 2016 9:25 AM  
To: Yamachika, Nira; Lars Oldewage  
Subject: RE: SGU El Toro MCAS - Monitoring Data EPA Method 537 - PFAAs

Nira - Great documentation on the PFAA sampling locations. Thanks. Roy

Roy Herndon  
Chief Hydrogeologist  
Orange County Water District  
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-----Original Message-----

From: Yamachika, Nira  
Sent: Monday, September 19, 2016 8:17 PM  
To: Herndon, Roy; Lars Oldewage  
Subject: RE: SGU El Toro MCAS - Monitoring Data EPA Method 537 - PFAAs

Roy and Lars,

OCWD sampled 9 locations for the UCMR3 program which included (1) (b) (9), (2) groundwater locations (i.e., (b) (9), and (3) blended source water serving the Orange Park Acres area. These locations sampled by OCWD, as well as sites sampled by IRWD, were on the excel file that Marc sent last week. Attached is a general map showing the 9 locations that OCWD sampled for the UCMR3 program and two excel files with site descriptions to aid in reviewing the UCMR3 excel data file that Marc emailed.

Lars...the remaining sites were sampled by IRWD so you can provide a map and general sample point description for Marc.

If this looks okay to you I will send to Marc tomorrow. Let me know....

Thank you...Nira

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-----Original Message-----

From: Yamachika, Nira  
Sent: Tuesday, September 13, 2016 9:55 PM  
To: 'Smits, Marc P CIV NAVFAC HQ, BRAC PMO'; Herndon, Roy  
Cc: Lars Oldewage; Callian, James T CIV NAVFAC HQ, BRAC PMO; Chammas, Guy A CIV; Bollweg, Alejandro (US)  
Subject: RE: SGU El Toro MCAS - Monitoring Data EPA Method 537 - PFAAs

Marc and Roy,

I will not be in the office tomorrow and it is best that I or Lars provide the locations of these UCRM3 sites. Some of the sites were sampled by OCWD and some by IRWD because the sites were outside of OCWD's area. Attached is a subset of the data file you sent with only the perfluorinated chemical results (Method 537) screened for UCMR3. As shown by the attachment, all results are ND or less than the minimum reporting level (column Q, orange shaded cells). I will provide locations either end of week or early next week.

Thanks....Nira

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-----Original Message-----

From: Smits, Marc P CIV NAVFAC HQ, BRAC PMO [mailto:[marc.smits@navy.mil](mailto:marc.smits@navy.mil)]  
Sent: Tuesday, September 13, 2016 5:57 PM  
To: Herndon, Roy  
Cc: Yamachika, Nira; Lars Oldewage; Callian, James T CIV NAVFAC HQ, BRAC PMO; Chammas, Guy A CIV; Bollweg, Alejandro (US)  
Subject: RE: SGU El Toro MCAS - Monitoring Data EPA Method 537 - PFAAs

Roy,

Attached is the file with the UCMR3 data that we extracted from the overall UCMR3 EPA database. It would be helpful to us to know the locations where each of the wells/sampling points are on a map. Please let me know if you have any questions.

Thanks,

Marc P. Smits PE  
BRAC Environmental Coordinator (BEC)  
NWS Concord and MCAS El Toro  
33000 Nixie Way, Bldg 50  
San Diego CA 92147  
Desk Phone: 619-524-4610

-----Original Message-----

From: Herndon, Roy [mailto:[RHerndon@ocwd.com](mailto:RHerndon@ocwd.com)]  
Sent: Thursday, September 01, 2016 5:57 PM  
To: Smits, Marc P CIV NAVFAC HQ, BRAC PMO  
Cc: Yamachika, Nira; Lars Oldewage  
Subject: [Non-DoD Source] FW: SGU El Toro MCAS - Monitoring Data EPA Method 537 - PFAAs

Marc,

Please see the attached results of two sampling events (7/28/16 and 8/9/16) of SGU influent water for PFAA analysis. The results were fairly consistent between the two events and are generally an order of magnitude higher than PFOA and PFOS concentrations we've detected thus far elsewhere in the Orange County groundwater basin.

Let me know if you have any questions about the PFAA sampling and analysis, and we'd appreciate hearing about any follow-up investigation plans that the Navy may develop as a result of these findings.

Regards, Roy

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From: Yamachika, Nira  
Sent: Thursday, September 01, 2016 2:42 PM  
To: Herndon, Roy  
Subject: SGU El Toro MCAS - Monitoring Data EPA Method 537 - PFAAs

Roy,

Attached are the results for the two grab sampling events of the SGU Influent for EPA Method 537 analysis (UCMR3 perfluorinated chemicals). As shown by the attached graph, the PFAAs are quite stable in the two groundwater samples.

Nira

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